

## Special Issue

# Sepsis: From Pathophysiology to Novel Therapeutic Approach

### Message from the Guest Editor

The dysregulated host response to infection leading to sepsis and septic shock is a life-threatening event that, despite advances in organ support and antimicrobial therapy, is associated with a mortality rate of >30%. On this basis, knowledge about molecular mechanisms underlying clinical response in patients with sepsis or septic shock and new therapeutic approaches are mandatory for an early and appropriate management of critically ill patients. Then, data about the intricate interplay between host defense, infection, and pathogen virulence as well as timing and type of interventions that are most effective according to the personal characteristics of individual patients are mandatory. This Special issue aims to expand the current knowledge on sepsis and septic shock in different stages and on its possible therapeutic exploitation, including new therapies. Experimental studies in *in vitro* and *in vivo* models, review articles, and clinical studies are welcome for consideration.

- septic shock
- immune response
- pharmacokinetic and pharmacodynamic of antimicrobials
- multidrug-resistant pathogens
- antimicrobial therapies

### Guest Editor

Dr. Alessandro Russo

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### Deadline for manuscript submissions

closed (30 November 2023)



## Biomedicines

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### Message from the Editor-in-Chief

*Biomedicines* (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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### Editor-in-Chief

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